

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Inventor(s): CASTENMILLER et al.
 Appln. No.: 09 739,622
 Series Code ↑ Serial No. ↑

Filed: December 20, 2000

Hon. Commissioner of Patents
 Washington, D.C. 20231

Group Art Unit 2882
 Examiner: Ho, Allen C.
 Atty. Dkt. P 275503 P-0166.010-US
 M# Client Ref

Appln. Title: POSITION DETECTION SYSTEM FOR
 USE IN LITHOGRAPHIC APPARATUS

Sir:

REPLY/AMENDMENT/LETTER

Date: May 16, 2003

This is a reply/amendment/letter in the above-identified application and includes the herewith attachment of same date and subject which is incorporated hereinto by reference and the signature below is treated as the signature to the attachment in absence of a signature thereto.

FEE REQUIREMENTS FOR CLAIMS AS AMENDED

1. Small Entity claim A. <input checked="" type="checkbox"/> NOT made B. <input type="checkbox"/> Withdrawn C. <input type="checkbox"/> made herewith D. <input type="checkbox"/> made previously For B & C See Required Separate Paper (Pat-256)		Claims remaining after amendment	Highest number previously paid for	Present Extra	Large/Small Entity	Additional Fee	Fee Code Lg/Sm
2. Total Effective Claims		19	**minus 20	0	x \$18/\$9 =	+ \$0	103/203
3. Independent Claims		5	***minus 5	0	x \$84/\$42 =	+ \$0	102/202
4. If amendment enters proper multiple dependent claim(s) into this application for first time (leave blank if this is a reissue application) add					+ \$280/\$140 =	+ \$0	104/204
5. Original due Date: April 16, 2003		<input type="checkbox"/> NONE					
6. Petition is hereby made to extend the original due date to cover the date this response is filed for which the requisite fee is attached		(1 mo)	\$110/\$55 =				115/215
		(2 mos)	\$410/\$205 =	+ \$110			116/216
		(3 mos)	\$930/\$465 =				117/217
		(4 mos)	\$1,450/\$725 =				118/218
		(5 mos)	\$1,970/\$985 =				128/228
7. Enter any previous extension fee paid since above original due date and subtract					- \$0		
8. Extension Fee					+ \$0		
9. If Terminal Disclaimer attached, add Rule 20(d) official fee					+ \$110/\$55	+ \$0	148/248
10. If IDS attached requires Official Fee under Rule 97 (c), add					+ \$180	+ \$0	126
or if Rule 97(d) Request add					+ \$180		126
11. After-Final Request Fee per rules 129(a) and 17(r)					+ \$750/370	+ \$0	146/246
12. No. of additional inventions for examination per Rule 129(b)					x \$750/375 ea	+ \$0	149/249
13. Request for Continued Examination (RCE)					+ \$750/375	+ \$0	1179/1279
14. Petition fee for					+ \$0		
15. TOTAL FEE =					\$110		
16. *If the entry in this space is less than entry in next space, the "Present Extra" result is "0".							
17. **If the "Highest number previously paid for" in this space is less than 20, write "20" in this space.							
18. ***If the "Highest number previously paid for" in this space is less than 3, write "3" in this space.							
					PLEASE CHARGE OUR DEP. ACCT		

Our Deposit Account No. 03-3975)

(Our Order No. 81468 275503
 C# M#

CHARGE STATEMENT: The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any missing or insufficient fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (missing or insufficiencies only) now or hereafter relative to this application and the resulting Official Document under Rule 20, or credit any overpayment, to our Accounting/Order Nos. shown above, for which purpose a duplicate copy of this sheet is attached.

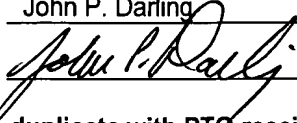
This CHARGE STATEMENT does not authorize charge of the issue fee until/unless an issue fee transmittal sheet is filed.

Query: Is appeal deadline now? If so, file Notice of Appeals separately.

Pillsbury Winthrop LLP
 Intellectual Property Group

By Atty: John P. Darling

Sig:



Reg. No. 44,482

P.O. Box 10500

McLean, VA 22102

Tel: (703) 905-2000

Atty/Sec: JPD/tmt

Fax: (703) 905-2500

Tel: (703) 905-2045

NOTE: File this cover sheet in duplicate with PTO receipt (PAT-103A) and attachments

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION OF

Confirmation No.: 4742

CASTENMILLER et al.

Group Art Unit: 2882

Appln. No.: 09/739,622

Examiner: Ho, Allen C.

Filed: December 20, 2000

Title: POSITION DETECTION SYSTEM FOR USE IN LITHOGRAPHIC APPARATUS

May 16, 2003

* * * * *

AMENDMENT UNDER 37 C.F.R. §1.111

Hon. Commissioner of Patents
Washington, D.C. 20231

Sir:

In reply to the Office Action dated January 16, 2003, the period for reply being extended by a Petition for One-Month Extension of Time filed herewith, please amend the above identified application as follows:

IN THE DRAWINGS:

Please amend Figure 2 as shown in the attached Request for Approval for Drawing Corrections.

IN THE SPECIFICATION:

Please amend the specification as follows:

Please delete the whole paragraph beginning on page 10, line 21 and replace it with the following paragraph:

Ideally, the positions of the radiation source/detector units on the metrology (reference) frame and the reflectors on the table are such that the table can be moved to a position where zero outputs are given for all six degrees of freedom simultaneously. (It should be noted though that the "zero" position need not be the position at which all detectors give their zero or mid range outputs; any repeatable and unique combination of output signals from the three 2-dimensional detectors can be defined as the zero position.) In other words, the capture zones of all the detection apparatus 10A, 10B, 10C should overlap. However, it



#17/EW/EXT
w/attach
V Brown
5/22/03

RECEIVED
MAY 20 2003
TECHNOLOGY CENTER 2800

05/19/2003 09:12:51 01 FC:1251 110.00 CH 00000078 033975 09739622